PROJECT DESCRIPTION

I. GENERAL:

THIS PORTION OF THE PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC SIGNAL AT THE INTERSECTION OF MD 108 AND MD 32 OFF RAMP IN HOWARD COUNTY, EXISTING SIGNAL HEADS SHALL BE REPLACED WITH LED SIGNAL HEADS. EXISTING PEDESTRIAN EQUIPMENT IS TO BE REPLACED WITH LED COUNTDOWN PEDESTRIAN SIGNALS AND APS PUSHBUTTONS. THE CROSSWALK CROSSING MD 108 AND ALL ASSOCIATED EQUIPMENT SHALL BE REMOVED. LOOP DETECTION SHALL BE REPLACED WITH VIDEO DETECTION. ADVANCE DETECTION FOR WESTBOUND MD 108 SHALL BE REPLACED WITH MICROLOOP PROBES. ADD ROUTE SHIELD ASSEMBLIES FOR MD 32 OFF RAMP.

MD 108 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION

II. INTERSECTION OPERATION:

THE MD 108 APPROACHES SHALL OPERATE CONCURRENTLY, WITH THE EASTBOUND MD 108 EXCLUSIVE/PERMISSIVE LEFT TURN PHASE. THE MD 32 WESTBOUND OFF RAMP SHALL OPERATE ALONE. THE PEDESTRIAN PHASE ACROSS BOTH RAMPS SHALL OPERATE ON RECALL.

PEDESTRIAN PHASE ACROSS MD 108 SHALL BE ELIMINATED. PEDESTRIAN PHASE TO CROSS MD 32 OFF RAMP SHALL OPERATE CONCURRENTLY WITH MD 108 MOVEMENTS.

III. CONTROLLER REQUIREMENTS:

THE EXISTING BASE MOUNTED CONTROLLER SHALL BE USED. SHA FORCES WILL INSTALL THE CENTROL CONTROL UNIT AND THE VIDEO DETECTION INTERFACE.

PROJECT CONTACTS

THE CONTACT PERSONS FOR SHA ARE AS FOLLOWS:

MR. JOHN CONCANNON ASSISTANT DISTRICT ENGINEER-TRAFFIC PHONE: 301-624-8140

MS. ANDREA ABEND DISTRICT UTILITY ENGINEER 301-624-8115

MR. RAY JOHNSON DISTRICT 7 MAINTENANCE 301-624-8105

THE CONTACT PERSONS FOR OFFICE OF TRAFFIC AND SAFETY:

MR. ED RODENHIZER CHIEF, SIGNAL OPERATION SECTION PHONE: 410-787-7652

MR. ROBERT SNYDER ASST. CHIEF, TRAFFIC OPERATION DIVISION 410-787-7631

WIRING KEY

VIDEO DETECTION LEAD-IN CABLE

CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)

6 AWG STRANDED COPPER GROUND WIRE

PROPOSED GROUND ROD

EXISTING UNDERGROUND ELECTRICAL SERVICE

CENTURY CENTURY ENGINEERING CONSULTING ENGINEERS - PLANNERS

10710 GILROY ROAD HUNT VALLEY, MD 21031 T3 DESIGN, P.C. 3927 OLD LEE HWY SUITE 101-C FAIRFAX, VA 22030 PHONE: 703-359-5861 www.t3design.us

design

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE STATE HIGHWAY ADMINISTRATION.

CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
900000	1	EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS SHEET ALUMINUM SIGNS CONSISTING OF: 4 EA - R10-3(1) (9"X15") PEDESTAL POLE MOUNT 1 EA - ROUTE MARKER ASSEMBLY (30"X51") 1 EA - ROUTE MARKER ASSEMBLY (48"X75")
973023	39	SF	

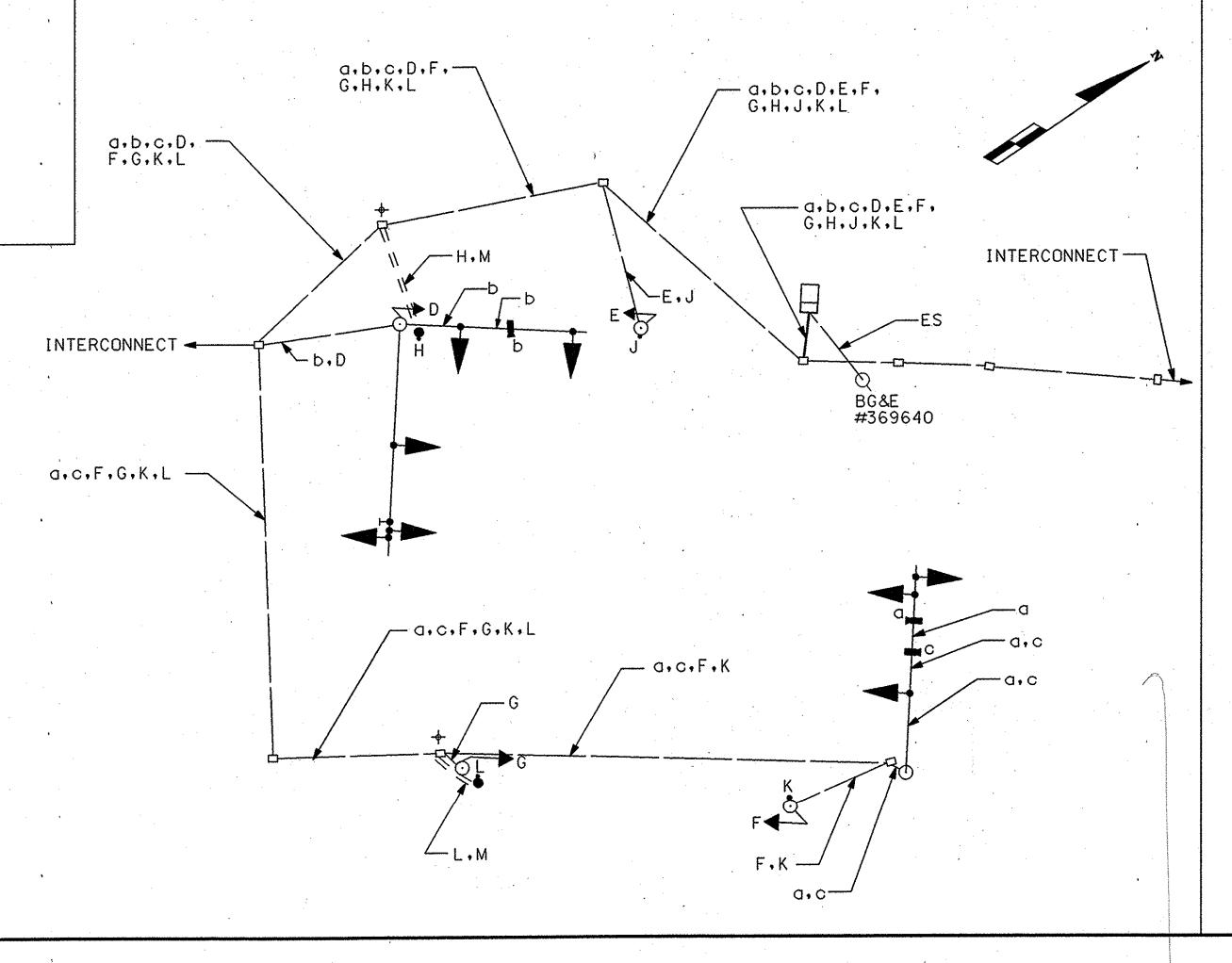
EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

0 4 TT 0 0 0 V			
CATEGORY CODE NO.	QUANTITY	UNIT	DESCRIPTION
120500 203030 585620 585624 800000 800000 800000 801004 801607 802501 805135 816001 816010 818004 821003 837001 860284 860292 861105 861107 873001	1 205 60 1 44 64 39 40 33 22 22 22 22 1,015 1	SYFFAAAAYFFFAAAAAAAFFS	MAINTENANCE OF TRAFFIC TEST PIT EXCAVATION 12" HEAT APPLIED WHITE PERM. PREFORMED THERM PAVEMENT MARKING 24" HEAT APPLIED WHITE PERM. PREFORMED THERM PAVEMENT MARKING 2-WIRE CENTRAL CONTROL UNIT ACCESSIBLE PEDESTRIAN PUSHBUTTON AND SIGN 16" LED COUNTDOWN PEDESTRIAN HEAD SECTION 8" LED SIGNAL HEAD SECTION CONCRETE FOR SIGNAL FOUNDATION INSTALL SHEET ALUMINUM SIGNS NO. 6 AWG STRANDED BARE COPPER GROUND WIRE 3" SCHEDULE 80 PVC CONDUIT-TRENCHED VIDEO DETECTION CAMERA CONTROL CABLE, 500 FOOT VIDEO DETECTION CAMERA TO CONTROLLER 10 FOOT BREAKAWAY PEDESTAL POLE BREAKAWAY BASE SUPPORT SYSTEM FOR SIGNAL STRUCTURE GROUND ROD — 3/4" DIAMETER X 10' LENGTH 12" LED SIGNAL HEAD SECTION CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE ELECTRICAL CABLE — 2 CONDUCTOR (NO. 14 AWG) ELECTRICAL CABLE — 5 CONDUCTOR (NO. 14 AWG) REMOVE AND DISPOSE OF EXISTING EQUIPMENT (PER ASSIGNMENT)

WIRING DIAGRAM

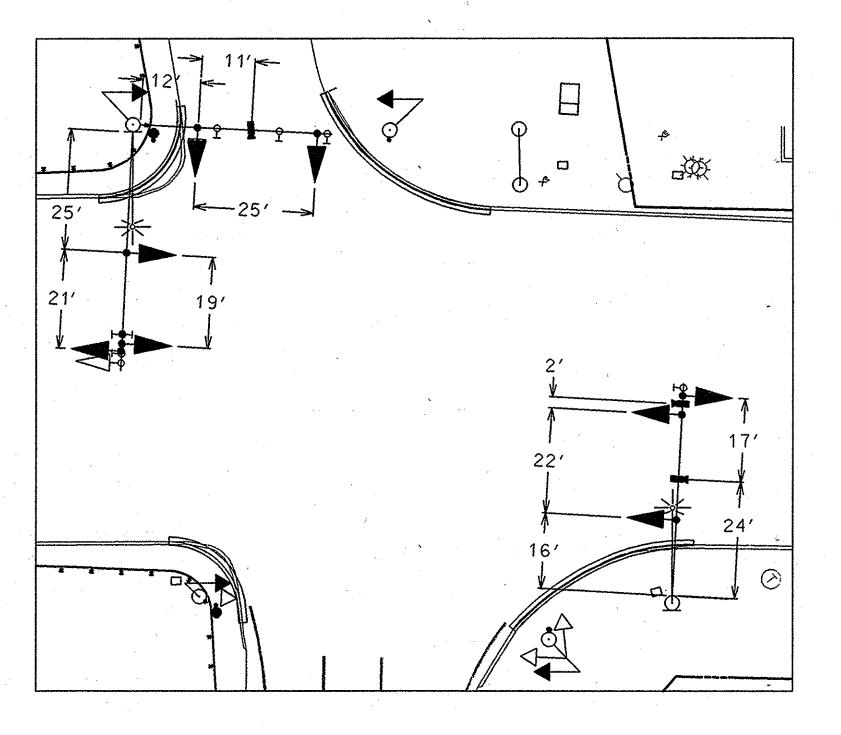
NOTE: USE EXISTING SIGNAL WIRE TO CONNECT PROPOSED VEHICULAR LED SIGNAL HEADS.



PHASE CHART

PHASE 1 AND 6	← GG	← GG	G	R	R	R	R	R	DW .	DW	WK	WK	*
1 AND 6 CHANGE	+Y G	4-Y G	G	R	R	R	R	R	DW	DW	WK	WK	•
PHASE 2 AND 6	G	G	G	G	G	G	R	R	WK	WK	WK	WK	*
PED CLEAR	G	G	G	G	G	G	R	R	FL/DW	FL/DW	FL/DW	FL/DW	
2 AND 6 CHANGE	Υ	Υ	Υ.	Υ	Υ	Y	R	R	DW	DW	DW	DW	•
PHASE 4	R	R	R	R	R	R	G	G	DW	DW	DW	DW	A
4 CHANGE	R	R	R	R	R	R	Υ	Υ	DW	DW	DW	DW	4
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	DARK	DARK	DARK	DARK	

SIGNAL HEAD DIMENSION DIAGRAM



ADDENDUM NO. I



STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

MD 108 AND MD 32 W.B. OFF RAMP /MD 32 N.B. ON RAMP

GENERAL INFORMATION SHEET

DESIGNED BY	SJW		_YTNUC	HOWARD	· in	
DRAWN BY	SJW	LC	GMILE .	13010803.78		
CHECKED BY	AJM	T.I	.M.S. NC). <u>1021</u>		
F.A.P. NO		тс	D NO.			

PLOTTED: Monday, March 19, 2007 AT 10:35 AM
FILE: Z:\Project\08-0020 Century Engineering-MD SHA\Task 3 MD 108\CADD\04-PS&E Plans 3-19-07\pSG-P001_md108.dgn